

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising:

detecting within a system an occurrence of a predetermined event ~~within a system~~
including at least one of satisfying by a non-volatile cache (NVC) of a hard drive (HD)
consecutive HD reads for at least a previous predetermined period of time, and satisfying
by the NVC a previous predetermined quantity of consecutive HD reads;

in response to the predetermined event, changing a power state of ~~[[a]] the HD~~
~~hard drive (HD);~~

servicing HD data transactions with ~~[[a]] the NVC non-volatile cache (NVC) of~~
~~the HD~~ while the HD is spun down.

2. (Cancelled).

3. (Currently Amended) The method of claim ~~[[2]]~~ 1, wherein the predetermined event further includes determining a predetermined quantity of the NVC that would be available to service HD writes when the HD is spun down.

4. (Original) The method of claim 3, wherein the changing the power state of the HD includes spinning down the HD.

5. (Currently Amended) A method comprising:

detecting within a system an occurrence of a predetermined event including The
~~method of claim 1, wherein the predetermined event includes~~ detecting a predetermined
number of hard drive(HD) data transactions serviced by ~~[[the]]~~ a non-volatile cache
(NVC) of the HD or the HD;

in response to the predetermined event, changing a power state of the a HD;

servicing HD data transactions with the NVC of the HD while the HD is spun
down.

6. (Original) The method of claim 5, wherein the predetermined event further includes detecting a predetermined number of HD data transactions serviced by the NVC or the HD within a previous predetermined period of time.

7. (Currently Amended) The method of claim 6, wherein the changing the power state includes one of canceling a planned spinning down of the HD ~~[[and]]~~ or spinning up the HD.

8. (Currently Amended) A machine readable medium having stored thereon a set of instructions which when executed cause a system to perform a method comprising of:

detecting within the system an occurrence of a predetermined event ~~within a system~~ including at least one of satisfying by a non-volatile cache (NVC) of a hard drive (HD) consecutive HD reads for at least a previous predetermined period of time, and satisfying by the NVC a previous predetermined quantity of consecutive HD reads;

in response to the predetermined event, changing a power state of ~~[[a]]~~ the HD ~~hard drive (HD);~~

servicing HD data transactions with ~~[[a]]~~ the NVC ~~non-volatile cache (NVC) of the HD~~ while the HD is spun down.

9. (Cancelled).

10. (Currently Amended) The machine readable medium of claim ~~[[9]]~~ 8, wherein the predetermined event further includes determining a predetermined quantity of the NVC that would be available to service HD writes when the HD is spun down.

11. (Original) The machine readable medium of claim 10, wherein the changing the power state of the HD includes spinning down the HD.

12. (Currently Amended) ~~The A machine readable medium of claim 8, wherein the predetermined event includes~~ having stored thereon a set of instructions which when executed cause a system to perform a method comprising of:

detecting within a system an occurrence of a predetermined event including
detecting a predetermined number of hard drive (HD) data transactions serviced by ~~[[the]]~~ a non-volatile cache (NVC) of the HD or the HD.

in response to the predetermined event, changing a power state of the HD;

servicing HD data transactions with the NVC while the HD is spun down.

13. (Original) The machine readable medium of claim of claim 12, wherein the predetermined event further includes detecting a predetermined number of HD data

transactions serviced by the NVC or the HD within a previous predetermined period of time.

14. (Currently Amended) The machine readable medium of claim 13, wherein the changing the power state includes one of canceling a planned spinning down of the HD [[and]] or spinning up the HD.

15. (Currently Amended) A system comprising:

a processor;

a non-volatile cache (NVC) coupled to the processor, the NVC to serve as a cache for a hard drive (HD) of the system; and

a machine readable medium having stored thereon a set of instructions which when executed cause the system to perform a method comprising of:

detecting within the system an occurrence of a predetermined event ~~within the system~~ including at least one of satisfying by a non-volatile cache (NVC) of a hard drive (HD) consecutive HD reads for at least a previous predetermined period of time, and satisfying by the NVC a previous predetermined quantity of consecutive HD reads;

in response to the predetermined event, changing a power state of [[a]]
the HD ~~hard drive (HD)~~;

servicing HD data transactions with the NVC while the HD is spun down.

16. (Cancelled).

17. (Currently Amended) The system of claim [[16]] 15, wherein the predetermined event further includes determining a predetermined quantity of the NVC that would be available to service HD writes when the HD is spun down.

18. (Original) The system of claim 17, wherein the changing the power state of the HD includes spinning down the HD.

19. (Currently Amended) ~~The~~ A system comprising:

a processor;

a non-volatile cache (NVC) coupled to the processor, the NVC to serve as a cache for a hard drive (HD) of the system; and

a machine readable medium having stored thereon a set of instructions which
when executed cause the system to perform a method comprising of:

detecting within a system an occurrence of a predetermined event
including of claim 15, wherein the predetermined event includes detecting a
predetermined number of HD data transactions serviced by the NVC or the HD.

in response to the predetermined event, changing a power state of the a
HD, and

servicing HD data transactions with the NVC of the HD while the HD is
spun down.

20. (Original) The system of claim 19, wherein the predetermined event further includes detecting a predetermined number of HD data transactions serviced by the NVC or the HD within a previous predetermined period of time.

21. (Currently Amended) The system of claim 20, wherein the changing the power state includes one of canceling a planned spinning down of the HD **[[and]]** **or** spinning up the HD.